Computer Engineering Curriculum Flowchart

- **Select one — (The other may be used as a Computer-Focus Technical Elective)**
- **ECE 271 Microcomputer Arch & Apps**
- **ECE 275 Sequential Logic**
- **ECE 177 Intro to Programming**
- **PHY 121 Physics I**
- **MAT 127 Calculus II**
- **ENG 101 College Composition**
- **ECE 100 Seminar**
- **PHY 122 Physics II**
- **MAT 228 Calculus III**
- **MAT 126 Calculus I**
- **ECE 210 Electric Circuits**
- **ENG 101 College Composition**

**ECE Technical Electives (16 credits)**

- **ECE 214 Electrical Networks Lab**
- **MAT 258 Diff. Equations & Linear Alg**
- **CHE 350 Statistical Process Control**
- **STS 332 Statistics**
- **ECE 316 Random Signal Analysis**
- **ECE 405 CEN Design Project I**
- **ECE 403 ECE Design Project III**
- **ECE 406 CEN Design Project II**

**Computer Focus Technical Electives (10 credits)**

- **COS 221 Data Structures in C++**
- **ECE 473 Computer Arch & Organization**
- **ECE 331 Intro to Unix System Admin**
- **COS 331 Operating Systems**
- **ECE 477 Hardware apps in C**
- **ECE 471 Embedded Systems**
- **ECE 342 Electronics I**
- **ECE 486 Digital Signal Processing**
- **COS 250 Discrete Structures**
- **MAT 481 Discrete Mathematics**

**Statistics Elective (Select one)**

- **CHE 350 Statistical Process Control**
- **STS 332 Statistics**
- **ECE 316 Random Signal Analysis**

**Computer Focus or other ECE or Generic Elective**

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**Human Values and Social Context Electives (15 credits in addition to CMJ 103).**

- Each course satisfies at least one of five sub-categories.
- Each sub-category must be satisfied at least once.
- Include “Ethics” in at least one course if not elsewhere in course selections.

**Offered Fall**

- **ECE 101 Intro to ECE**
- **PHY 121 Physics I**
- **MAT 126 Calculus I**
- **CMJ 103 Public Communication**

**Offered Spring**

- **ECE 100 Seminar**
- **PHY 122 Physics II**
- **MAT 127 Calculus II**
- **ENG 101 College Composition**

**Offered Fall & Spring**

- **ECE 177 Intro to Programming**
- **ECE 210 Electric Circuits**
- **MAT 228 Calculus III**
- **ENG 101 College Composition**

**Prerequisite: **

- C or better Prerequisite
- C- or better Prerequisite

**Corequisite: **

- C or better Prerequisite
- C- or better Prerequisite

**Course partially satisfies senior project prerequisites**

- Prerequisite: ECE 271 and any two of: ECE 342, ECE 471, ECE 473, ECE 477